

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P199902

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5MQ-7030-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10198.2 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

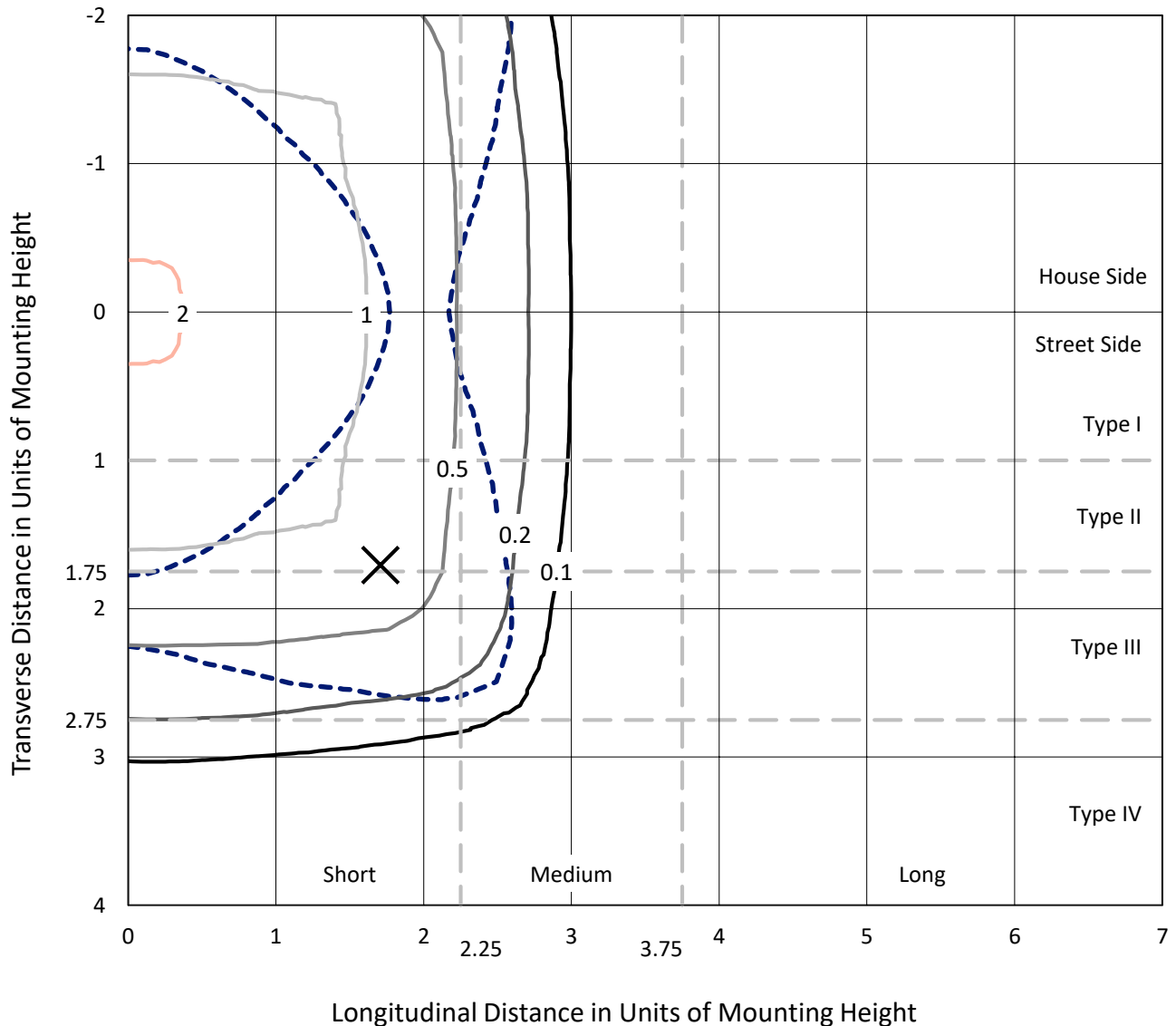


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Iso-Footcandle Lines of Horizontal Illumination

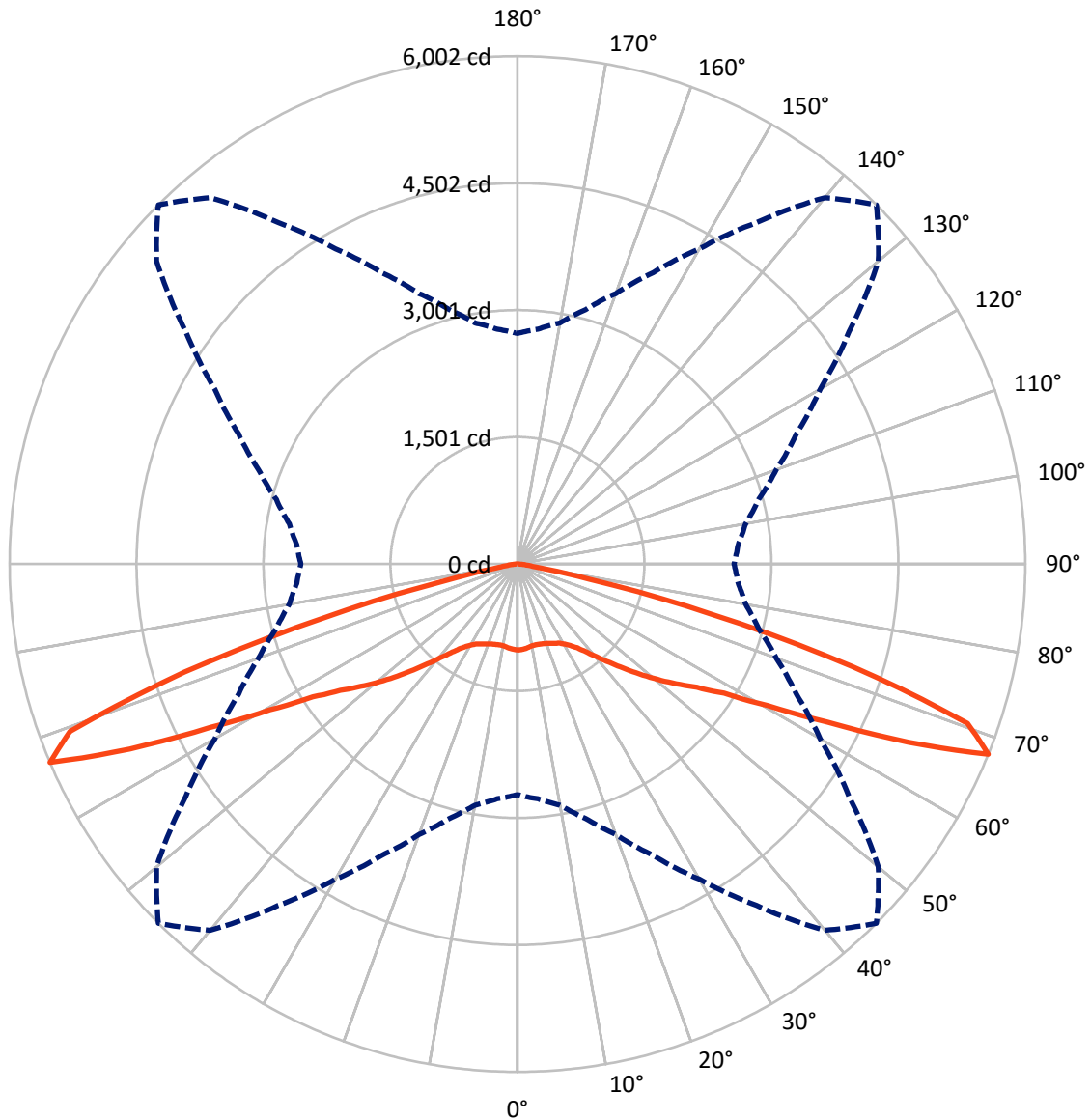
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5099.1	0.0	5099.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5099.1	0.0	5099.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10198.2	0.0	10198.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	0.9
10°-20°	276.0	2.7
20°-30°	469.2	4.6
30°-40°	767.1	7.5
40°-50°	1369.3	13.4
50°-60°	2308.7	22.6
60°-70°	3582.8	35.1
70°-80°	1258.8	12.3
80°-90°	71.1	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10198.2	100.0
0°-180°	10198.2	100.0



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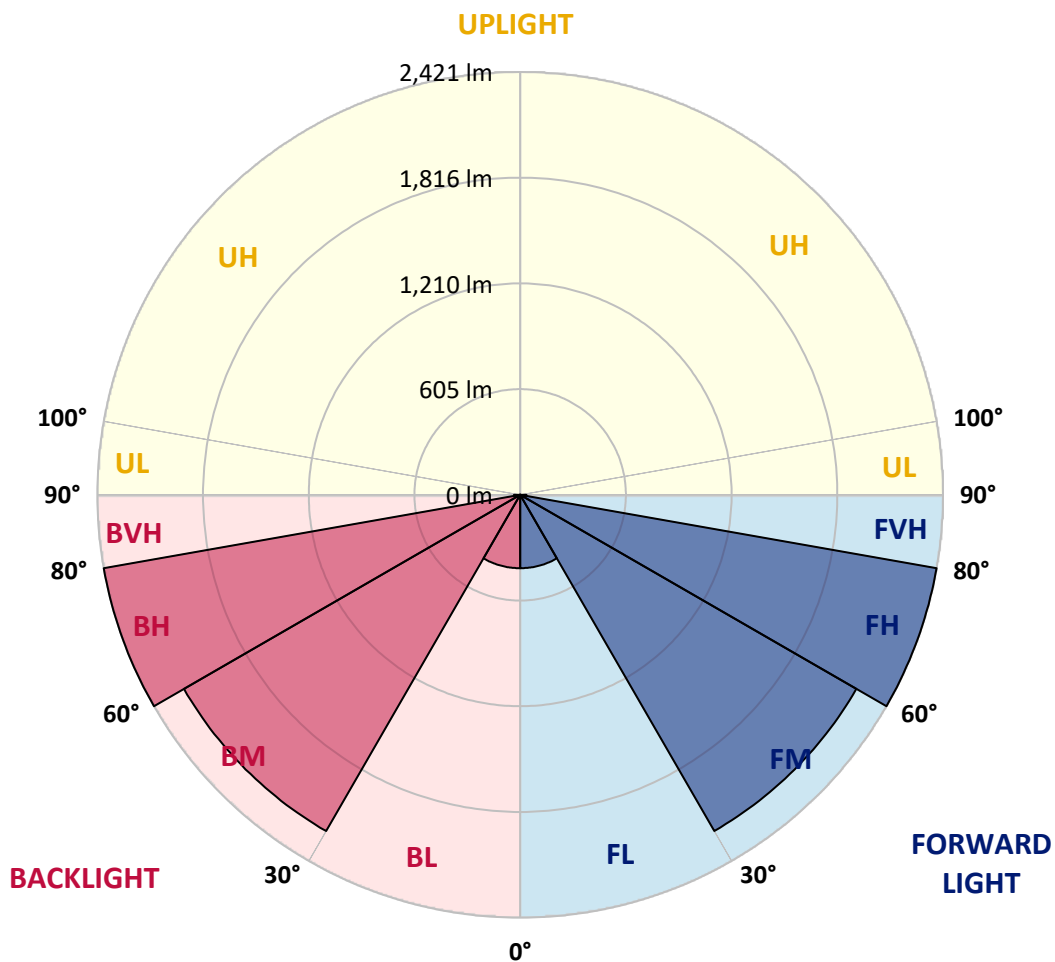
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.2	4.1			
FM	(30°-60°)	2222.6	21.8			
FH	(60°-80°)	2420.8	23.7			G2/5000
FVH	(80°-90°)	35.6	0.3			G1/100
BL	(0°-30°)	420.2	4.1	B1/500		
BM	(30°-60°)	2222.6	21.8	B2/2500		
BH	(60°-80°)	2420.8	23.7	B3/2500		G2/5000
BVH	(80°-90°)	35.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1012.5	1013.5	1013.5	1013.5	1013.1	1013.1	1012.1	1013.1	1012.5	1011.2	1011.6
5°	1004.1	1005.0	1005.0	1004.5	1006.0	1005.5	1004.1	1005.0	1004.5	1003.6	1004.1
7.5°	992.0	993.2	993.2	992.8	994.3	993.8	992.8	993.2	993.2	992.0	992.0
10°	978.3	979.3	979.3	978.8	981.1	981.1	980.6	982.0	982.6	981.1	980.2
12.5°	965.7	967.1	967.1	968.9	971.4	972.2	974.6	976.4	978.3	977.9	976.0
15°	958.1	959.1	960.9	963.3	967.1	970.3	974.0	978.3	982.0	983.0	980.2
17.5°	953.5	954.8	957.6	960.9	966.1	971.8	977.4	983.0	988.1	990.0	986.7
20°	952.0	953.0	955.8	961.5	968.5	976.9	984.9	991.4	998.5	1000.9	998.5
22.5°	954.8	956.8	960.1	966.6	976.0	986.7	996.1	1005.0	1013.9	1018.2	1014.9
25°	967.5	969.3	973.6	982.0	992.4	1003.6	1014.5	1024.8	1032.7	1037.0	1034.5
27.5°	991.0	993.2	998.5	1007.0	1018.2	1030.4	1042.2	1050.5	1057.1	1058.5	1055.7
30°	1026.2	1031.3	1037.4	1046.8	1060.0	1070.2	1082.0	1089.5	1097.4	1097.4	1095.1
32.5°	1081.0	1086.1	1092.7	1101.7	1111.9	1123.1	1133.6	1140.1	1148.6	1149.0	1143.4
35°	1163.1	1165.5	1171.0	1176.7	1186.1	1196.0	1204.8	1209.1	1216.0	1216.6	1211.3
37.5°	1271.4	1271.9	1275.6	1277.6	1286.0	1296.8	1305.2	1308.1	1314.6	1313.7	1308.5
40°	1397.5	1399.9	1401.4	1404.2	1413.0	1423.4	1432.3	1433.7	1440.7	1439.4	1432.7
42.5°	1543.4	1544.4	1552.3	1556.6	1565.0	1570.2	1581.4	1582.8	1591.3	1587.5	1580.0
45°	1707.0	1715.6	1723.0	1731.5	1740.4	1746.5	1755.5	1753.5	1759.2	1753.5	1749.4
47.5°	1879.3	1885.4	1902.2	1915.4	1929.8	1935.1	1947.8	1942.1	1947.8	1939.8	1938.4
50°	2068.8	2079.5	2094.1	2109.0	2124.5	2133.0	2149.3	2142.3	2149.9	2142.3	2138.1
52.5°	2255.3	2258.2	2290.1	2312.2	2333.7	2343.5	2353.3	2350.0	2350.6	2350.0	2345.9
55°	2432.6	2439.2	2471.1	2501.2	2538.6	2566.3	2583.2	2581.4	2577.1	2572.8	2565.9
57.5°	2632.4	2639.0	2675.5	2712.6	2755.3	2794.8	2828.9	2864.1	2877.7	2881.5	2866.0
60°	2902.6	2902.2	2950.9	2995.9	3056.8	3115.5	3190.5	3267.0	3354.7	3395.4	3341.5
62.5°	3177.4	3188.6	3258.9	3338.8	3464.4	3586.9	3725.2	3861.2	4000.0	4113.1	3993.0
65°	3144.6	3187.7	3292.3	3473.0	3705.0	3980.8	4279.0	4594.7	4879.8	5075.8	4855.9
67.5°	2725.3	2786.7	2893.1	3112.7	3403.0	3800.7	4301.5	4925.9	5651.3	6002.1	5567.5
70°	1975.4	2044.8	2156.4	2370.7	2658.3	3036.2	3580.3	4329.7	5290.3	5643.8	5165.0
72.5°	983.0	1020.5	1089.5	1225.9	1443.6	1750.3	2243.6	2963.9	3813.8	4138.4	3700.8
75°	333.9	351.3	363.0	407.5	476.5	597.0	842.3	1295.9	1976.8	2369.9	1948.6
77.5°	192.8	193.2	201.1	209.1	220.9	234.1	266.8	350.2	606.0	860.6	627.0
80°	124.8	124.2	130.9	136.9	144.9	151.5	153.4	162.2	187.2	221.8	198.5
82.5°	64.7	72.6	87.2	95.2	110.3	113.0	109.3	106.0	112.1	116.4	119.1
85°	35.6	30.9	46.4	60.0	66.6	67.5	67.5	63.8	66.1	64.7	70.4
87.5°	16.4	15.0	18.2	29.5	31.4	26.8	28.2	24.8	17.8	17.4	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1011.6	1012.1	1012.1	1013.5	1013.9	1014.9	1015.8	1016.3
5°	1003.6	1005.0	1004.1	1005.5	1005.5	1006.5	1006.5	1007.0
7.5°	992.0	993.2	993.2	993.2	992.8	994.3	994.3	994.3
10°	979.7	980.6	980.2	979.3	978.3	979.7	979.3	978.8
12.5°	976.0	973.6	971.8	970.8	968.9	969.3	968.0	968.0
15°	978.3	974.0	970.8	969.3	967.5	966.6	965.7	966.1
17.5°	984.4	979.3	975.0	972.7	970.3	968.9	967.1	967.5
20°	995.3	989.2	983.0	978.3	974.0	971.8	970.3	969.9
22.5°	1011.2	1002.2	993.2	986.3	980.6	977.4	976.0	975.0
25°	1029.4	1019.6	1009.2	1001.3	995.7	991.4	988.6	988.6
27.5°	1052.3	1044.4	1035.0	1025.7	1020.5	1016.3	1014.5	1013.5
30°	1090.9	1083.5	1075.8	1066.9	1060.4	1056.2	1052.9	1050.1
32.5°	1140.1	1134.0	1127.9	1121.3	1115.2	1109.6	1104.5	1102.1
35°	1209.5	1204.8	1200.6	1193.1	1190.8	1187.4	1184.7	1182.3
37.5°	1305.2	1303.4	1303.4	1295.4	1293.5	1292.1	1289.3	1289.7
40°	1430.9	1432.7	1430.4	1427.6	1426.2	1422.4	1422.4	1425.8
42.5°	1579.6	1581.0	1586.1	1581.4	1586.6	1581.8	1579.2	1581.4
45°	1752.2	1757.3	1767.6	1762.9	1766.1	1758.2	1748.3	1748.9
47.5°	1945.8	1950.5	1954.7	1951.5	1951.9	1938.8	1925.7	1922.4
50°	2147.1	2148.9	2151.2	2146.6	2147.5	2133.0	2118.0	2118.4
52.5°	2345.9	2354.7	2364.2	2351.5	2348.7	2332.2	2311.2	2302.7
55°	2573.4	2586.0	2575.2	2553.2	2531.1	2509.1	2481.4	2476.7
57.5°	2853.9	2832.2	2798.4	2756.7	2726.2	2695.3	2667.1	2655.4
60°	3244.0	3162.8	3101.9	3040.0	3001.1	2963.1	2926.1	2920.4
62.5°	3795.5	3655.3	3533.9	3405.8	3301.3	3219.7	3154.5	3136.2
65°	4486.8	4155.2	3867.8	3599.5	3366.4	3190.5	3079.8	3031.1
67.5°	4784.1	4129.5	3636.5	3255.7	2950.9	2737.9	2618.4	2558.9
70°	4204.0	3424.5	2888.5	2507.2	2229.6	2002.6	1894.2	1830.4
72.5°	2892.2	2178.4	1722.6	1406.0	1184.2	994.3	919.2	913.6
75°	1298.6	860.1	592.8	456.8	384.6	334.5	318.9	307.2
77.5°	363.5	268.8	239.6	224.2	209.1	191.9	185.3	186.7
80°	176.8	166.9	160.4	150.6	136.9	122.4	115.9	118.6
82.5°	117.2	115.9	120.0	113.0	93.3	79.2	66.6	60.9
85°	71.2	72.2	73.6	74.1	62.9	44.0	30.0	33.8
87.5°	28.2	32.3	35.2	36.6	34.2	21.1	16.9	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)